IEEE P802.15  
Wireless Specialty Networks

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| --- | --- | --- | --- | --- |
| 802.15  Reply from on doc. 15-19/0422r2 | | | | |
| Date: 2020-1-12 | | | | |
| Author(s): | | | | |
| Name | Company | Address | Phone | email |
| Volker Jungnickel | Fraunhofer HHI | Einsteinufer 37, 10587 Berlin, Germany |  | [volker.jungnickel@hhi.fraunhofer.de](mailto:volker.jungnickel@hhi.fraunhofer.de) |

**Abstract**

# This document contains the email exchange between IEEE 802.15 and ITU-T including the response from ITU-T regarding the liaison letter from IEEE 802.15 to inform Q18/15 the latter on the potential usage of G.9991 PHY for Multi-Gigabit/s Optical Wireless Communications, and to request from ITU-T copyrights for using text from recommendation G.9991 and all ITU-T documents referenced therein, including G. 9960, G.9961, G.9963 and G.9964.

Revision history:

R0: created after email exchange between IEEE and ITU-T

Hi Yve  
  
Thanks for the quick response.  Will do RE the MEC  
  
Cheers  
  
Bob  
  
  
At 01:47 PM 12/13/2019 -0500, Yvette Ho Sang wrote:

Hey Bob,  
  
You'll need to submit a copy of my email with the thread and a copy of your request form during the MEC submission.  
  
Thanks,  
  
Yve  
  
Yvette Â Ho Sang, MBA, ARM  
Director, IPR and Risk Mgmt  
IEEE Standards Association  
445 Hoes Lane  
Piscataway, NJ 08854  
Tel: +1 732 562 3814  
Mobile: +1 732 690 9863  
Fax: +1 732 562 1571  
[standards.ieee.org](http://standards.ieee.org)  
  
Fostering technological innovation and excellence for the benefit of humanity.  
  
  
On Fri, Dec 13, 2019 at 1:45 PM Yvette Ho Sang <[y.hosang@ieee.org](mailto:y.hosang@ieee.org)> wrote:

Dear Margaret Campion,

The terms are acceptable to IEEE.

Regards,

Yvette Â Ho Sang, MBA, ARM

Director, IPR and Risk Mgmt

IEEE Standards Association

445 Hoes Lane

Piscataway, NJ 08854

Tel: +1 732 562 3814

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[standards.ieee.org](http://standards.ieee.org)

Fostering technological innovation and excellence for the benefit of humanity.

---------- Forwarded message ---------

From: Bob Heile <[bheile@ieee.org](mailto:bheile@ieee.org)>

Date: Fri, Dec 13, 2019 at 1:35 PM

Subject: Fwd: RE: Copyright permission request from IEEE802.15-reply

To: <[stds-copyright@ieee.org](mailto:stds-copyright@ieee.org)>, <[bheile@ieee.org](mailto:bheile@ieee.org)>, jonathan Goldberg <[goldberg.j@ieee.org](mailto:goldberg.j@ieee.org)>, <[volker.jungnickel@hhi.fraunhofer.de](mailto:volker.jungnickel@hhi.fraunhofer.de)>

Here is the reply

From: "Legal Affairs Unit, ITU" <[jur@itu.int](mailto:jur@itu.int)>

To: "[bheile@ieee.org](mailto:bheile@ieee.org)" <[bheile@ieee.org](mailto:bheile@ieee.org)>

CC: "Cabrera Montoya, Anibal" <[anibal.cabrera@itu.int](mailto:anibal.cabrera@itu.int)>, "TSBDir, ITU"

Â Â Â Â Â Â Â Â <[tsbdir@itu.int](mailto:tsbdir@itu.int)>, "TSB SG15 Secretariat, ITU" <[tsbsg15@itu.int](mailto:tsbsg15@itu.int)>, "OTA,

Â Hiroshi" <[hiroshi.ota@itu.int](mailto:hiroshi.ota@itu.int)>

Subject: RE: Copyright permission request from IEEE802.15

Date: Fri, 13 Dec 2019 15:13:39 +0000

Dear Dr Heile,

I am writing in follow-up to your recent message which has been forwarded to ITUs Legal Affairs Unit for response.

ITU does not sign copyright release forms submitted to it by third parties; rather, we deal with these requests in line with our own practice by simple exchange of email.

Turning to your message, I am pleased to confirm that the Union can accommodate your request on the following terms and conditions:

1. this authorization is limited to the extracts of ITU material identified in the attachment to your message below and for the sole purpose outlined therein;

2. this authorization is granted on a non-exclusive basis and is non-transferable to third parties; and

3. ITU will be clearly identified as the source of the material.

Please send confirmation of acceptance of the above terms by return email.

I do hope this is helpful and look forward to hearing from you.

Yours sincerely,

Margaret CAMPION

Assistante, UnitÃ© des affaires juridiques

International Telecommunication Union

Tel : +41227306125

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From: Bob Heile <[bheile@ieee.org](mailto:bheile@ieee.org)>

Sent: Thursday, December 12, 2019 4:42 PM

To: TSBDir, ITU <[tsbdir@itu.int](mailto:tsbdir@itu.int)>

Cc: [p.nikolich@ieee.org](mailto:p.nikolich@ieee.org); [bheile@ieee.org](mailto:bheile@ieee.org); [volker.jungnickel@hhi.fraunhofer.de](mailto:volker.jungnickel@hhi.fraunhofer.de); [lesbrown@sympatico.ca](mailto:lesbrown@sympatico.ca); jonathan Goldberg <[goldberg.j@ieee.org](mailto:goldberg.j@ieee.org)>

Subject: Copyright permission request from IEEE802.15

Importance: High

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Greetings

Please find attached two documents.Â  One is a letter from IEEE 802.15, Working Group for Wireless Specialty Networks requesting copyright permission to use some ITU-T material in and IEEE 802.15 Standard and the other is the IEEE copyright permission form.Â

I appreciate your consideration of this request and look forward to your consent. Please let me know if you have any comments or questions.

Best Regards

Bob

Bob Heile, Ph.D

Chair, IEEE 802.15 Working Group on Wireless Specialty Networks

Chair IEEE 2030.5 Working Group for Smart Energy Profile 2

Co-Chair IEEE P2030 Task Force 3 on Smartgrid Communications

11 Robert Toner Blvd, Suite 5-301

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Chair, IEEE 802.15 Working Group on Wireless Specialty Networks

Chair IEEE 2030.5 Working Group for Smart Energy Profile 2

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**Appendix: Draft Letter to be sent out by Bob Heile**

IEEE 802.15 WSN Working Group  
DRAFT Liaison Communication

|  |  |  |
| --- | --- | --- |
| Source: | IEEE 802.15 Working Group[[1]](#footnote-1) | |
|  |  |  |
| To: | Les Brown | Rapporteur ITU-T Q18/15, [lesbrown@sympatico.ca](mailto:lesbrown@sympatico.ca) |
|  |  |
|  |  |  |
| CC: | Konstantinos Karachalios | Secretary, IEEE-SA Standards Board Secretary, IEEE-SA Board of Governors [sasecretary@ieee.org](mailto:sasecretary@ieee.org) ] |
| Paul Nikolich | Chair, IEEE 802 LMSC [p.nikolich@ieee.org](mailto:p.nikolich@ieee.org) |
| Pat Kinney | Vice-chair, IEEE 802.11 WLAN Working Group [pat.kinney@ieee.org](mailto:pat.kinney@ieee.org) |
| Volker Jungnickel | Chair, IEEE 802.15.13 TG13 Multi-Gigabit/s Optical Wireless Communications Task Group [volker.jungnickel@hhi.fraunhofer.de](mailto:volker.jungnickel@hhi.fraunhofer.de) |
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|  |  |  |
| From: | Bob Heile | Chair, IEEE 802.15 WSN Working Group [bheile@ieee.org](mailto:bheile@ieee.org) |
|  |  |  |
| Subject: | Information on the potential usage of G.9991 PHY in the P802.15.13 standard and request from ITU-T copyrights for the potential usage of the corresponding ITU-T recommendations. | |
| Approval: | Approved by the IEEE 802.15 Working Group at IEEE 802.15 interim meeting, Hanoi, September 19, 2019 | |

Dear Les,

The IEEE P802.15.13 task group is working on a standard to specify a new PHY and MAC layer to enable Multi-Gigabit/s Optical Wireless Communications [1].

The task group discussed several potential options for suitable PHY. Among those, the G.9991 PHY was presented as one possible mode of operation for 802.15.13.

With this liaison letter, we would like to inform you on the status of discussion and would welcome any potential feedback on this intend from your side.

In addition, P802.15.13 needs to make use of text and figures from the recommendation G.9991 and all ITU-T documents referenced therein, including G. 9960, G.9961, G.9963 and G.9964, for the purpose of creating the draft. We would like to hereby request copyright permission. A list of the potentially relevant clauses and figures is appended to this letter.

We would appreciate if you could respond for our request to grant us copyright by January 12, 2020.

Considering your potential interest in this area, we will keep you updated on the progress of our work.

Our next face-to-face meetings will be held from January 12th – 17th, 2020 (Irvine, California, USA) and March 15th - 20th (Atlanta, Georgia, USA).

Sincerely,

Bob Heile

Chair, IEEE 802.15 WSN Working Group

[1] IEEE P802.15.13 PAR document: <https://mentor.ieee.org/802.15/dcn/17/15-17-0076-03-0000-multi-gigabit-owc-par.pdf>

Appendix 1: ITU-T Clauses and Figures potentially be used by IEEE 802.15 TG13 (next page)

Appendix 1: **ITU-T Clauses and Figures potentially be used by IEEE 802.15 TG13**

In case of questions, please, contact [volker.jungnickel@hhi.fraunhofer.de](mailto:volker.jungnickel@hhi.fraunhofer.de)

**ITU-T Rec. G.9991-2019**

**8. Physical layer specification I (PHY layer based on ITU-T G.9960)**

8.2. Medium dependent specification

### 8.2.1 Physical layer specification

**Figures 8-1, 8-2**

**ITU-T Rec. G. 9960-2018**

### 5.2.4 Bit ordering convention

### 7. Physical layer specification

7.1. Medium independent specification

7.1.2 Physical coding sublayer (PCS)

7.1.3 Physical medium attachment (PMA) sublayer

7.1.4 Physical medium dependent (PMD) sublayer

7.2. Medium dependent specification

7.2.3 Physical layer specification over coax

**Annex C.2.3 Medium dependent specification over coax**

**Annex G: Test vectors**

### Figures 5-13, 7-2, 7-3, 7-4, 7-5, 7-6, 7-7, 7-8, 7-9, 7-10, 7-11, 7-12, 7-13, 7-14, 7-16, 7-17, 7-18, 7-19, 7-20, 7-21, 7-22, 7-23.

**ITU-T Rec. G.9961-2018**

## 8.9 Retransmission and acknowledgement protocol

## 8.18 Inter-bandplan interoperability

## 8.20 Metrics acquisition

## 8.21 Operation in power saving modes

## 

**ITU-T Rec. G. 9963-2018**

### 7. Physical layer specification

7.1. Medium independent specification

7.1.2 Physical coding sublayer (PCS)

7.1.3 Physical medium attachment (PMA) sublayer

7.1.4 Physical medium dependent (PMD) sublayer

7.2. Medium dependent specification

**Figures 7-2, 7-3, 7-4, 7-5, 7-6, 7-7, 7-8, 7-9, 7-10, 7-11**

1. This document represents the views of the IEEE 802.15 Working Group,and does not necessarily represent a position of the IEEE, the IEEE Standards Association, or IEEE 802. [↑](#footnote-ref-1)